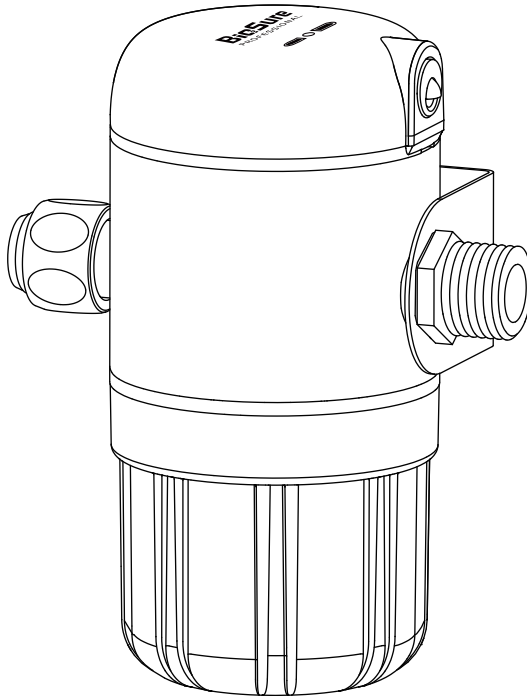




WATER DISINFECTION SYSTEM

WDS Mini

Model EOS7211-HX



INSTALLATION & OPERATION MANUAL

BIOTEK ENVIRONMENTAL SCIENCE LTD.
www.besgroups.com

PREFACE

This manual contains important information of BioSure Professional WDS Mini (Model: EOS7211-HX). Only the correct operation and maintenance of this equipment can make your system perform its best. **Be sure to understand the correct installation, operation and maintenance methods before using this equipment.**

This manual contains important safety information, basic installation, operation, and maintenance instructions. Please read this manual carefully to optimize your application. For additional guidance, consult **Biotek Environmental Science Ltd. (BES Group) Customer Service or your BioSure Professional local authorized dealer.**

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VERSION: 2023.05

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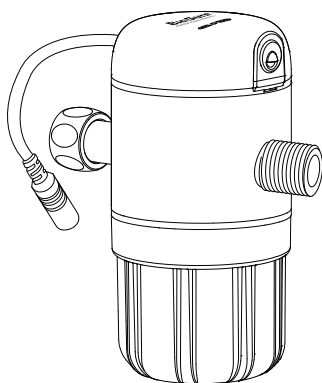
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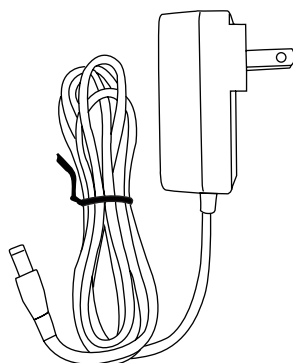
PACKAGING CONTENTS

In order to ensure that the products can be delivered to consumers completely, BES Group will confirm the integrity of accessories and packaging through quality control before the products are sold. After you receive the product, please check whether there are any packaging defects, cracks, joint damage, etc., to confirm that there is no damage during transportation.

If you find any damage, please notify your freight forwarder and BES Group immediately.

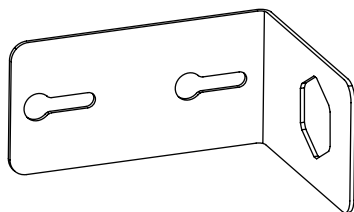


Main Device

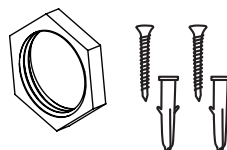


Power Supply

AC100-240V
Wire Length 1.5m



Wall-Mount





**Hex nuts (x1)
Phillips Screws (x2)
& Plastic Wall Anchors (x2)**

IMPORTANT SAFETY INFORMATION

To avoid personal injury or property damage to the user or others, please follow the following safety instructions :

Explanation of Safety and Notice Symbols

- | | |
|---|---|
|  WARNING | WARNING indicates a hazardous situation which, if not avoided, COULD result in death or serious injury. |
|  CAUTION | CAUTION indicates a hazardous situation which, if not avoided, COULD result in injury or property damage. |
| NOTICE | NOTICE is used to address practice that is required and must be followed. |

----- **READ AND SAVE THESE STRUCTIONS** -----

Electrical Safety and Basic Safeguards

WARNING

- All service work must be performed by a qualified and authorized technician. **NEVER** attempt to disassemble, repair, or remodel the unit yourself. Doing so will void your warranty and can lead to fire or electric shock. If the product malfunctions or has been damaged in any manner, unplug the unit and contact the BES Group service department or its authorized local service agent or dealer to arrange service or repair.
- Do **NOT** damage the Power Supply. A damaged Power Supply can cause fire or electric shock.
- Do **NOT** plug or unplug the Power Supply if your hands are wet. Doing so can cause electric shock or injury.
- Do **NOT** use the product if the power connector is loose or damaged.
- Keep the power supply away from heated or hot surfaces including space heaters, stoves, and similar electrical appliances. (> 100 cm)

- Stop using the product immediately if you notice any of the following symptoms indicating abnormality or malfunction:
 - The product is abnormally hot or deformed.
 - Smoke coming from the product or there is burning smell.
 - Some part of the product is cracked, loose, or unstable.
 - The product makes strange noises.
 - The display is abnormal.
- If any of the above issues occur, unplug the power immediately and return to authorized agent or dealer for service and repair. Continued use of the product may cause a fire, electric shock, or injury.

NOTICE

- **The power cord of this product is 1.5m. Extension cord should only be used if care is exercised.**
 - Do not place the socket of the extension cord where it is easily splashed by water.
 - The extension cord should not be suspended from the countertop or tabletop, otherwise it may cause tripping.

Specific Safety Information

CAUTION

- Before connecting the unit to power supply, ensure all plumbing connections are secured and leak-free, from shut-off valve to outlet.
- To maintain cosmetic integrity, protect this unit from direct prolonged sunlight exposure.
- Do not immerse the product in water or splash water on it, as this may cause damage to the product. Choose a place to avoid rain or splash water when installing.
- For your safety, **DO NOT** operate the device with any panels or covers removed.

SAFETY INFORMATION OF OZONE

Ozone is categorized as “generally regarded as safe” (GRAS), and is approved by the US Food and Drug Administration (FDA) for food service use as an antimicrobial additive and a disinfectant for food contact surface. The Centers for Disease Control and Prevention (CDC) has also supported that ozone is a safe and effective sanitation method in drinking water, effective against even some of the most resistant pathogens.

This device is designed to instantly transform tap water into ozone water, with the amount of ozone well below typical safety limits and regulations when used correctly. According the Occupational Safety and Health Administration (OSHA), the concentration standard for continuous exposure to ozone is listed below:

Long term exposure limit	8 Hours	0.10 ppm
Mid term exposure limit	2 Hours	0.20 ppm
Short term exposure limit	15 Minutes	0.30 ppm

The amount of ozone generated by this device is well below typical safety limits and regulations when installed, operated, and maintained correctly. Ozone can be sensed by smell at a level as low as 0.002-0.003ppm. It is normal and expected to be able to detect a mild ozone smell from the ice storage bin.

1.1 PRODUCT DESCRIPTION

The WDS Mini unit is a simple and easy solution to reduce bacteria and prevent the growth of mold, slime, biofilm, and other bacterial contamination in commercial ice machines. The system applies a revolutionary advanced electrolytic ozone technology, which features on-demand contribution of reliable sanitizing benefits of dissolved ozone in effective and safe manners.

1.2 PRODUCT FEATURES

• FOUR FUNCTION MODES FOR DIFFERENT TYPES OF ICE MAKER

– Mode 1

Basic Flow-Controlled Mode, designed for versatile applications in any flexible setting. In this basic mode, the primary function is to be activated by water flow and automatically deactivate when the flow stops.

– Mode 2

Flow-Controlled Mode Combined with Delayed Timer Operation, specifically designed and recommended for batch-type ice makers. Batch-type ice makers, such as cuber ice machines that utilize a solenoid valve to control the water intake for ice-making, can benefit from this mode.

– Mode 3

Automatic Timer Mode, specifically designed and recommended for continuous-type ice makers. Continuous-type ice makers, such as cuber or flaker ice machines that utilize a float to control the continuous water intake for ice-making, can benefit from this mode.

– Mode 4

Flow-Controlled Mode Combined with Extended Operation, specifically designed and recommended for ice and water dispenser systems that have a low water intake rate during the icemaking process.

• ALARM WARNING

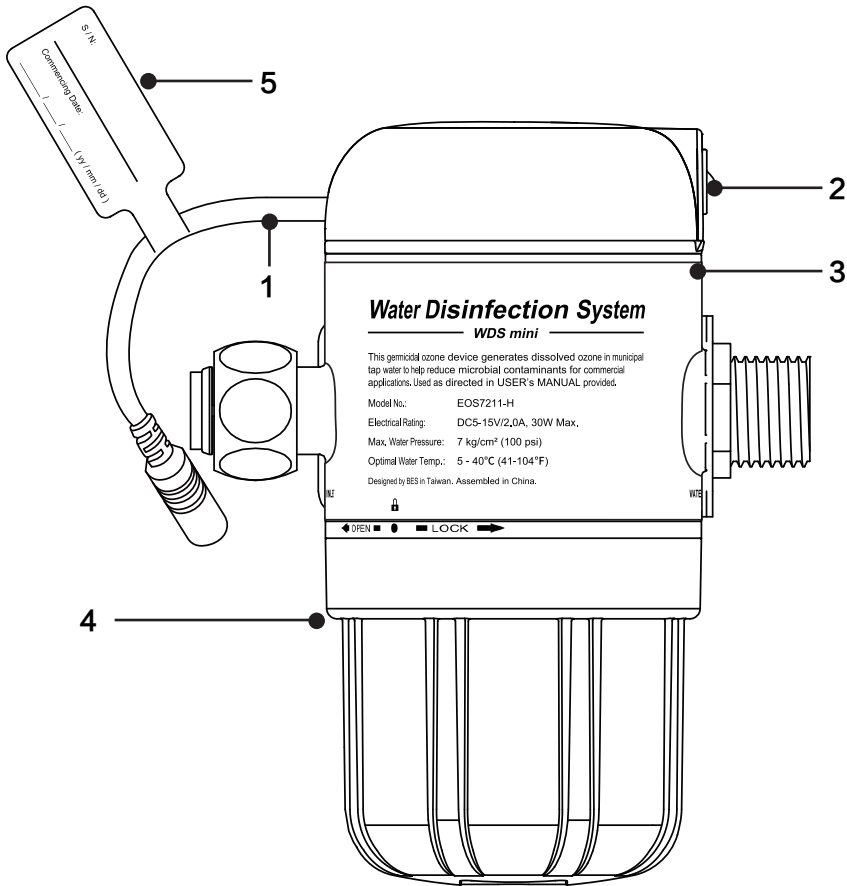
When the efficiency of EOG cell decrease, the recommended replacement cycle of the EOG is due, or the system runs abnormally, the unit will alarms with lights.

* Please refer to Chapter 3 and Chapter 5 for more details.

• SCALE PREVENTING

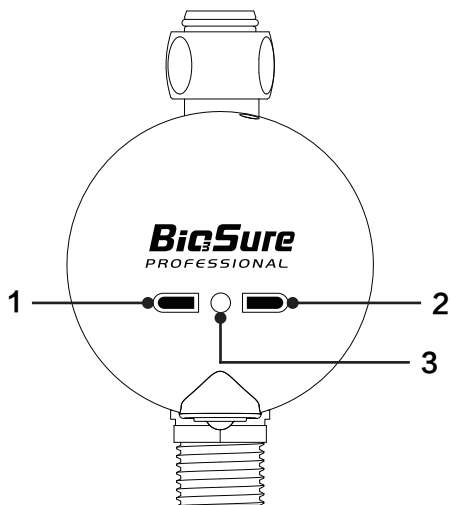
Our electrolytic ozone generator incorporates a scale-preventing feature that automatically operates polarity reversal to prevent mineral buildup on the electrodes, ensuring optimal ozone generation performance.

1.3 KEY COMPONENTS



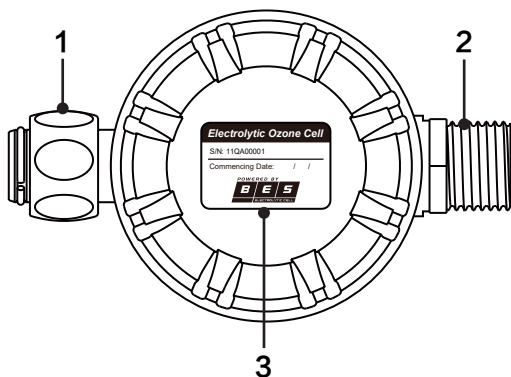
Side View

- 1. Power Cord and Power Socket
- 2. Programming Port
- 3. EOG Status Indicator
- 4. Electrolytic Ozone Generator (EOG) Cell Cartridge
- 5. Serial Number



Top View

- 1. Control Button - Mode
 - 2. Control Button - Reset
 - 3. Status Indicator
-



Bottom View

- 1. Water Inlet
 - 2. Water Outlet
 - 3. EOG Serial Number Sticker
-

1.4 SPECIFICATIONS

MODEL		EOS7211-HX
APPLICABLE ICE MAKER (Daily ICE PRODUCTION)		< 1800 lbs (General Environment)* ¹
OUTPUT		Ozonated Water
OZONE PRODUCTION		Approx. 120 mg/hr* ²
CONNECTIONS (INPUT/OUTPUT)		1/2" Movable Nut (Female) / 1/2" External Thread (Male)
GENERATOR PLATE MATERIAL		Titanium
DIMENSIONS		Φ73 x W118 x H148 mm
WEIGHT (NET)		473 g
IP CLASS		IP54
WATER SUPPLY	Quality	Clean or Filtered Water* ³
	Flow	Up 1450LPH at 3 kg/cm ² with 1/2" tube* ⁴
	Pressure	≤ 7.0 kg/cm ² (100 psi)
	Optimal Temp.	5 - 40°C
POWER	Adaptor Input	AC 100-240V, 50/60Hz
	Adaptor Output	DC5-15V / 2.0A (Constant Current)
	Rate	30W
AMBIENT TEMP.		5 - 40°C
AMBIENT RELATIVE HUMIDITY		0 - 90% R.H. non-condensing

*1. Compared to the General Environment, the Harsh Environment includes bakery operations, bars, micro-breweries, and more. When configuring the unit in the Harsh Environment, please apply the recommended specifications by BioSure Professional distributors.

*2. Environment: 1 atm, 25°C; Water : filtered to 1μm, 20°C, TDS = 60 ppm. Actual performance concentrations may vary from the listed data due to operating conditions (water flow, pressure, temperature, and water quality).

*3. Recommended water quality: filtered ≤ 1μm, TDS > 60 ppm, Hardness < 250 ppm (as CaCO₃). Minimum TDS ≥ 30ppm is required for basic performance.

*4. Minimum ≥ 30LPH is required for activating the function mode 1, 2 and 4.

2.1. PRECAUTIONS BEFORE INSTALLATION

This device is designed and engineered for easy integration into existing water systems. Please check the device for damage or shortage before installation and be sure you have the tools.

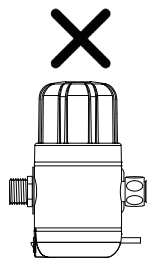
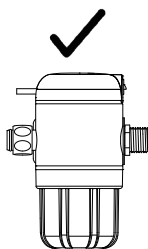
If any parts are damaged, contact your supplier IMMEDIATELY. Do **NOT** install damaged parts.

Tools Needed for Installation:

- Pipe wrench
- Plumber's Tape
- Pipe Clamp
(As needed)
- Adjustable wrench
- Adjustable joints
(As needed)
- Electric Drill

Installation Precautions

1. For best results, clean and sanitize the water line before installing the unit.
2. Select a location for the unit so:
 - Mount the system after all water filtration processes.
 - It will be in an upright position (You can use the wall mount attached to fix the unit)



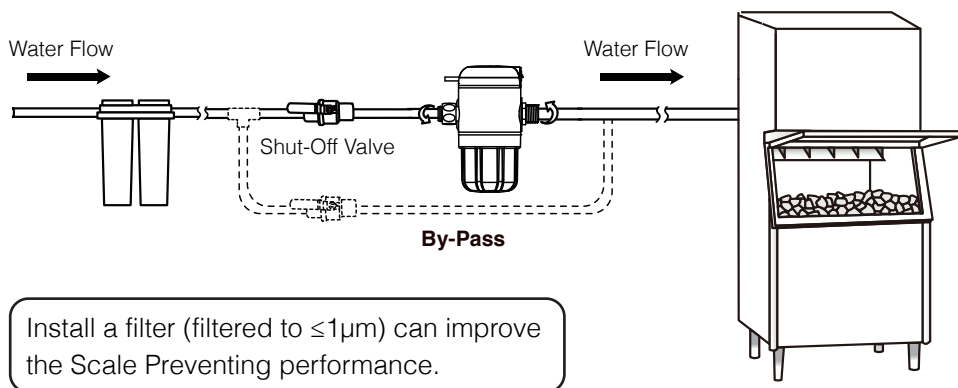
- Indicator lights and cartridge are visible and accessible.
 - Allow sufficient access for cartridge replacement.
 - Other equipment or objects should not lean on or press against the device.
 - Be sure there is a power socket within 1.5m around the installation position.
3. It is highly recommended that a water shut-off valve be installed before and near the unit.
 4. Ensure that adequate hammer arrestors is provided to comply with regional standards and regulations.
 5. A bypass pipeline is recommended to keep the normal operation of the ice maker during future maintenance.

2.2. INSTALLING THE UNIT

• IMPORTANT INFORMATION

The diameter of water inlet and outlet is 1/2" (female inlet /male outlet).
Installation position of the equipment must be placed after the water filters.
A shut-off valve in front of the water inlet is recommended to facilitate future maintenance or replacement of the EOG cell cartridge.

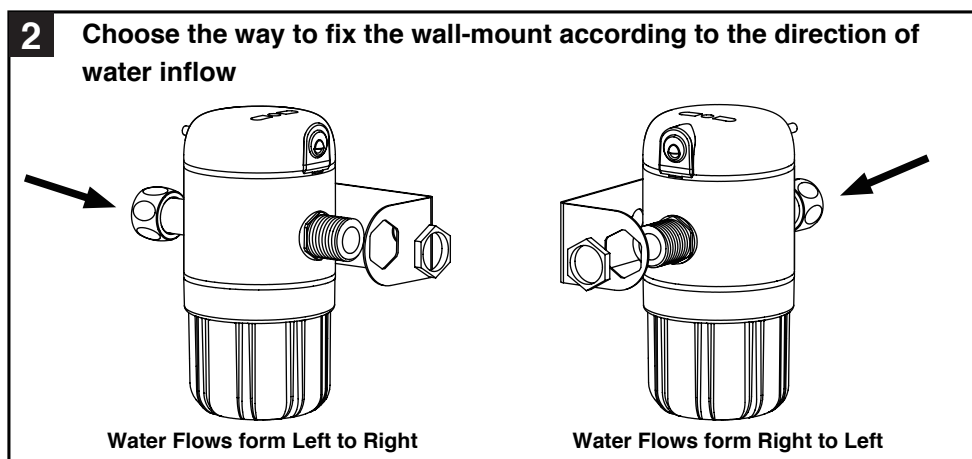
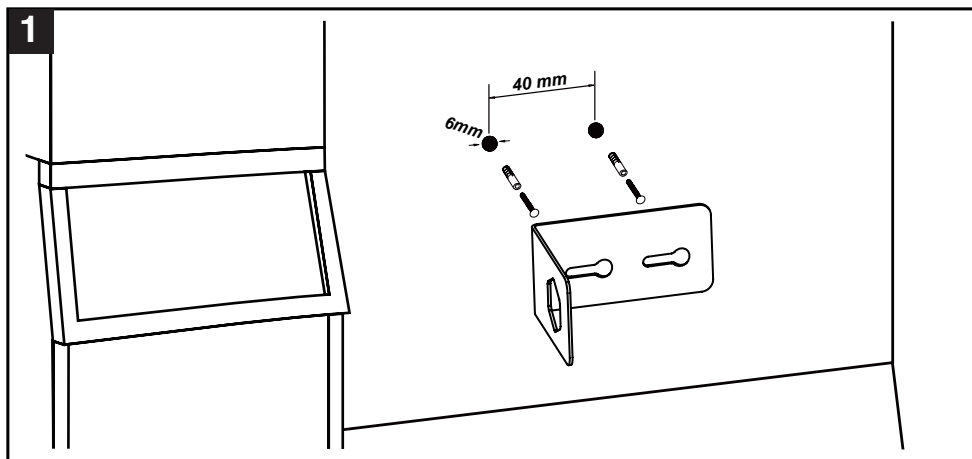
In case an adjustable joint is used, it's suggest to use plumber's tape and a hose clamp to avoid water leakage. It's recommended to reserve the length of the water pipe for moving or removing the device in the future - the inlet and outlet connectors are designed as one male and one female, which can be directly connected after the equipment is removed.



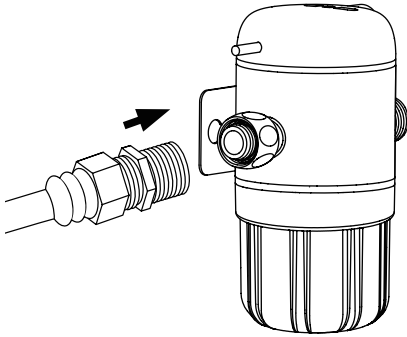
Typical Scheme of Installation

• MOUNTING THE UNIT

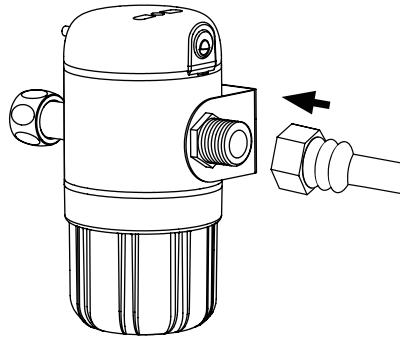
You can fix the device on the wall by a wall-mount (Attachment). Please follow the previous section "Precautions before installation" to select an appropriate location, and follow descriptions below to secure the device.



3



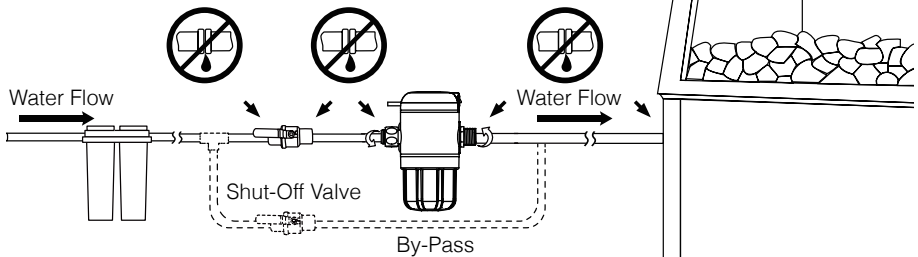
Connect input water tube



Connect output water tube

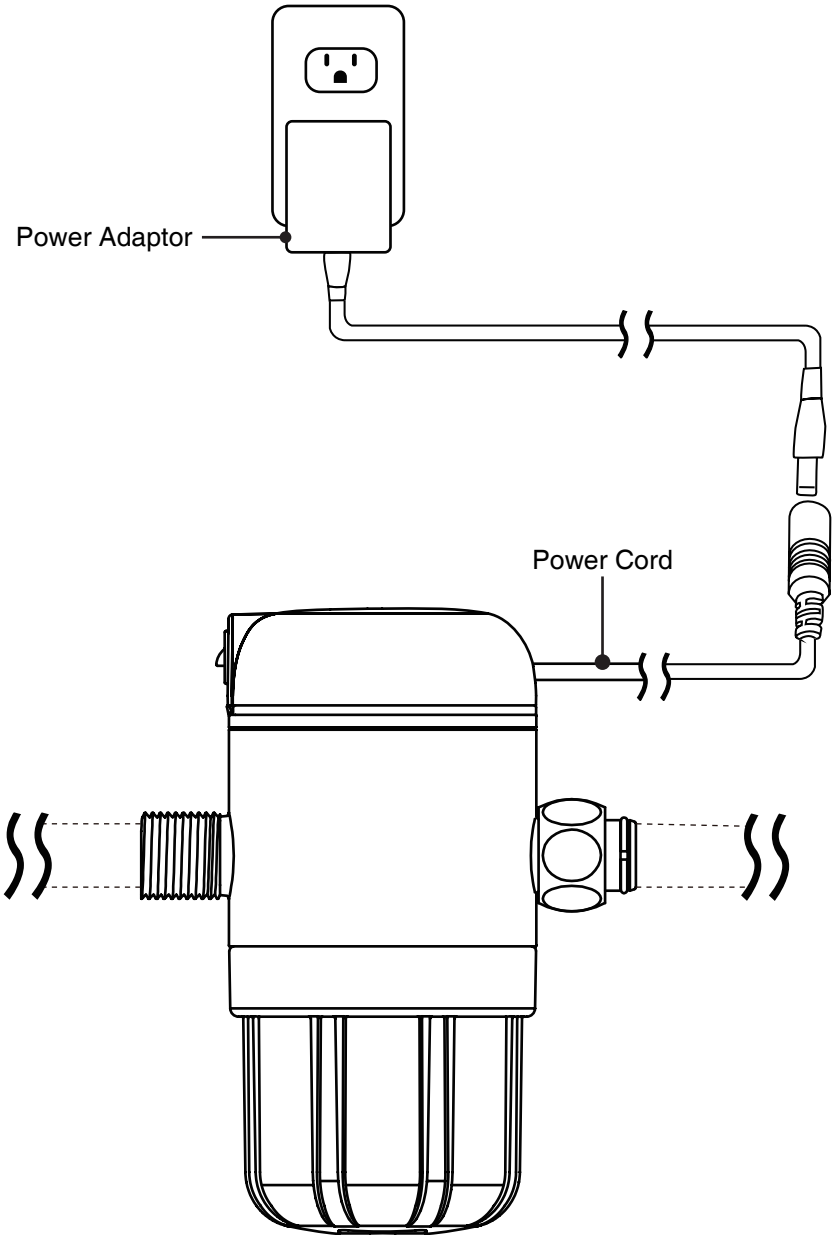
4

**Turn on the water supply.
Test for leaks at each connect point.**

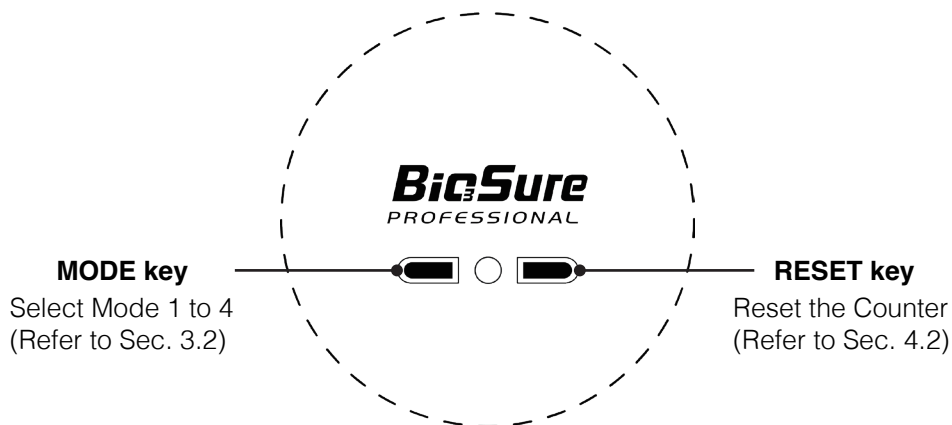


• **POWER ON YOUR WDS Mini**

Connect the power adaptor plug with the power socket of the device. Ensure all plumbing connections are secured and leak-free. Plug the power adaptor into the wall electricity outlet to switch on the device.



3.1 CONTROL KEYS & INDICATORS



· Mode Indicator

MODE 1
STEADY BLUE



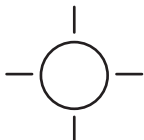
Basic Flow - Controlled Mod

MODE 2
STEADY WHITE



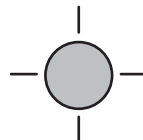
**Flow - Controlled Mode Combined
with Delayed Timer Operation**

MODE 3
BLINKING WHITE



Automatic Timer Mode

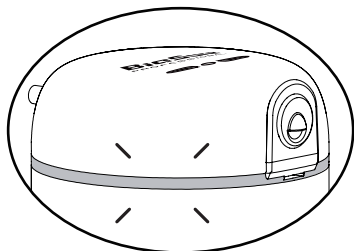
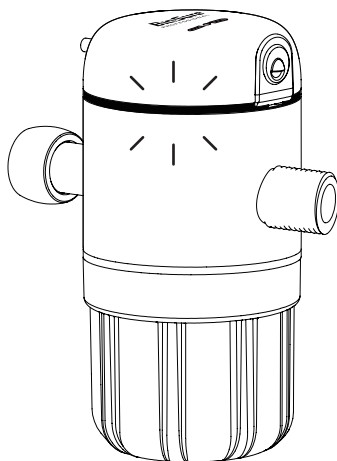
MODE 4
BLINKING BLUE



**Flow - Controlled Mode Combined
with Extended Operation**

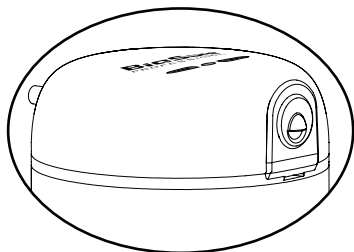
For abnormal status indications, please refer to troubleshooting in Section 5 (page 24).

· EOG Status Indicator



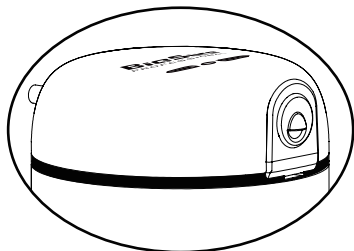
Slow Blue Blinking

System self-checking in the initial 30 sec of start-up.



Dark

- Stand-By in normal condition



Steady Blue ON

Product function is successfully triggered by an effective water flow.
(or by timer if for the mode 3 is selected)

For abnormal status indications, please refer to troubleshooting in Section 5 (page 24).

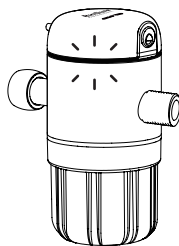
3.2 START YOUR WDS Mini

There is **no** ON/OFF control switch with the unit. The unit is switched ON by connecting the power supply cord into a wall electrical outlet (power supply). All water pipeline connections should be completed before the device powered on. After the unit is powered on, the buzzer will beep once, a 30-second system self-check will be performed. During this period, the control buttons cannot be operated. After 30 seconds, the system enters standby mode, user can operate control buttons at this time.

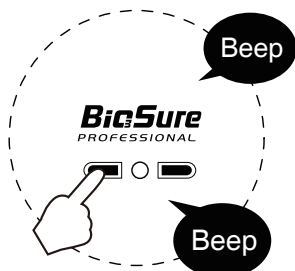
IMPORTANT! Operating the device under no water or low water level will activate an alarm.

• SYSTEM SELF-CHECK

After each powered on, the device will perform a self-check for 30 seconds and the EOG status indicator will blink slowly in blue. Control keys cannot be operated at this time.



• SELECT MODE



The default setting is Mode 1, the "**Basic Flow-Controlled Mode.**" To switch modes, press and hold the "**MODE**" key (Left key) for 3 seconds. Repeat the 3-second long press to cycle through the four available modes.

A successful mode switch is indicated by a beep sound, confirming that the settings have been saved. The last saved settings will be retained and applied upon power restart. Please refer to sec. 3.1 for a detailed explanation of the lighting indications in various modes.

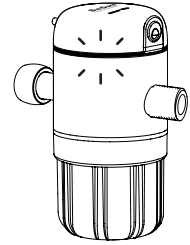
* Each time the power is restarted, the system maintains the previous mode settings.

* Control keys won't function when the EOG cell is working.

• PERFORMANCE OF EOG GENERATING THE OZONE WATER

When the EOG starts working, EOG status indicator turns steady ON in blue.


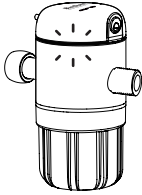
- * However, if the EOG recommended replacement cycle is due (the EOG status indicator flashes slowly in yellow when the unit in standby), the EOG indicator will be steady yellow when the EOG cell is working.



• TABLE OF WORKING MODE

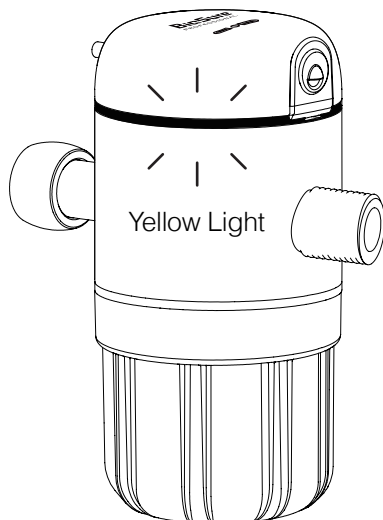
MODE	EOG WORKING DESCRIPTION
Mode 1 Basic Flow-Controlled Mode	When the input flow surpasses the activating flow specified in Section 1.4, the unit will be triggered to start and generate ozone water continuously. The ozone water generation will persist until the flow ceases completely or drops below the activating flow.
Mode 2 Flow-Controlled Mode Combined with Delayed Timer Operation	When the unit detects the activating water intake, it will continuously produce ozone water until the water flow ceases. Once the water flow stops, there will be an 8-minute delay before the unit initiates a 2-minute operation in the EOG cartridge. This cycle repeats every 10 minutes, allowing for a maximum of three consecutive cycles ^{*1} .
Mode 3 Automatic Timer Mode	After the system self-check, the unit operates in a continuous cycle of producing ozone water for 1 minute every 10 minutes. This cycle repeats indefinitely, with 1 minute of work followed by a 9-minute interval.
Mode 4 Flow-Controlled Mode Combined with Extended Operation	When the unit detects the activating water intake, it will be triggered to start and continuously generate ozone water until 10 seconds after the flow drops below the activating flow.

* 1 If the ice maker receives water intake within these three cycles, the cycle count will be reset.

MODE		STATUS OF THE EOG CELL	
1	Blue Steady ON	Normal Standby (not triggered to work)	Light OFF
		Ozonated water in generation	Blue Steady ON
		Standby while the EOG life is due	Yellow Blinking Slowly
		Function triggered while the EOG life is due	Yellow Steady ON
2	White Steady ON	Normal Standby (not triggered to work)	Light OFF
		Ozonated water in generation	Blue Steady ON
		Standby while the EOG life is due	Yellow Blinking Slowly
		Function triggered while the EOG life is due	Yellow Steady ON
3	White Blinking Slowly	Normal Standby (not triggered to work)	Light OFF
		Ozonated water in generation	Blue Steady ON
		Standby while the EOG life is due	Yellow Blinking Slowly
		Function triggered while the EOG life is due	Yellow Steady ON
4	Blue Blinking Slowly	Normal Standby (not triggered to work)	Light OFF
		Ozonated water in generation	Blue Steady ON
		Standby while the EOG life is due	Yellow Blinking Slowly
		Function triggered while the EOG life is due	Yellow Steady ON

4.1 RECOMMENDED REPLACEMENT CYCLE OF EOG CELL

To get the best performance, it is recommended to replace the EOG cell after 1000 working hours of usage*. The unit equipped a built-in timer that will remind you when the usage hours expired: the EOG status indicator blinks slowly in yellow and the EOG status indicator will light steady yellow when the EOG cell is producing ozone water. When noticing the prompt, please replace the EOG cell as soon as possible**. In addition, be careful that hard water or high mineral content water ($\text{CaCO}_3 > 250 \text{ ppm}$) will accumulate scale and could affect the EOG performance.




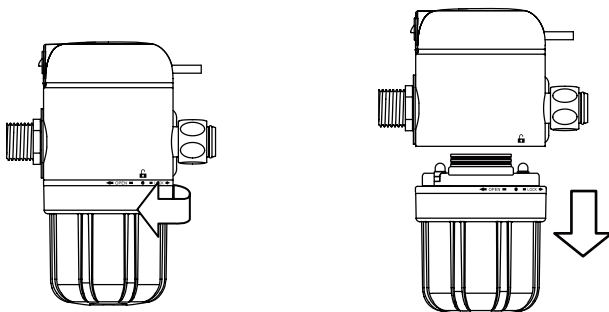
* 1000 working hours are the actual EOG working hours for ozone water production, which is about 1 to 2 years in general use. For different models of ice machine the results may vary.


* * The unit can still operate after the warning is issued, but the efficiency of making ozone water will keep on reducing in a certain extent and no alarm for EOG abnormal.

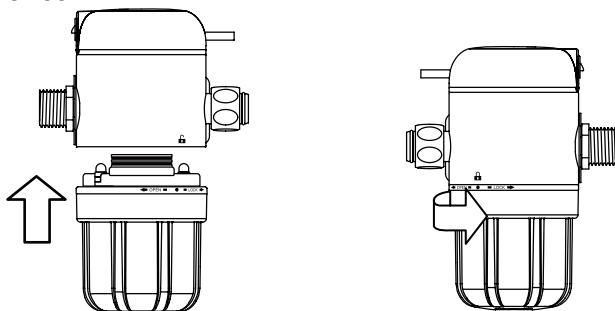
4.2 EOG CELL CARTRIDGE REPLACEMENT

The EOG cell cartridge can only be obtained from BioSure Professional or BES Group authorized distributors. Please confirm the product model and serial number before ordering.

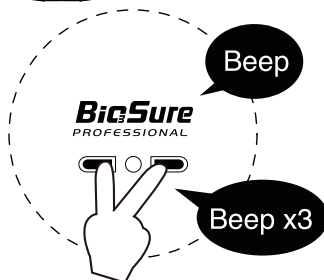
1. Disconnect power supply.
2. Close the water shut-off valve or disconnect input water.
3. Hold body of device steady, and twist the EOG cell cartridge clockwise till the dot on the metal ring lines up the unlock icon  on the device. Pull the cartridge carefully to remove for replacement, and dispose of appropriately.



4. Reverse the new EOG cell cartridge, write down the date on the serial number sticker in permanent marker. Reverse the procedures described above and make sure the dot on the metal ring lined up the lock icon  on the device.



5. **Reset the timer:** Follow the method below to reset the timer so that you can get the replacement alarm at correct time in the future. **During stand-by period, press and hold both "MODE" and "DOSAGE" key for 8 seconds*.** The timer is reset successfully when you hear 3 beeps, and the slowly blinking yellow light gone simultaneously. Reset the timer won't affect your previous settings.



* The status indicator will start to display blue/white light blinking alternately.

4.3 EOG CELL CARTRIDGE CLEANING PROCEDURE

Decreased EOG cell generation efficiency may be caused by scale build up on its electordes. Please follow the steps below to clean it:

1. Power off the Unit

2. Fill the EOG Cell Cartridge with Scale Cleaner

Close the shut-off valve in front of the unit, detach the EOG cartridge as described in section 4.2. Fill the cartridge with scale cleaner *.

* The scale cleaner can be made of 20-50% vinegar or 50% citric acid solution. It is better to use hot water for preparation, and be careful not to scald yourself during the mixing process.

3. Wait for Reaction

After preparation, let it sit for a period of time according to the instructions of the scale cleaner (if the cleaning solution temperature is above 50°C, soak for at least half to 1 hour. If at room temperature, extend the soaking time).

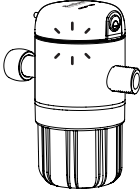

4. Pour out the Solution in the Cartridge and Rinse it with Clean Tap Water

Rinse the cartridge with clean tap water at least 3 times.

5. Follow the instructions in section 4.2 to reinstall the EOG cell cartridge and switch-on the shut-off valve to complete the cleaning procedures.

Reference the following guide to self-check your problems before requesting repairs. If you come into a conclusion that problem has occurred, do NOT attempt to disassemble and repair the product yourself, but contact BES Group or your dealer for support. Please have the model number and serialnumber of the device available when calling for support.

CHART OF LIGHT FOR SYSTEM ABNORMAL

		CAUSE / STATUS
Yellow light slowly blinking in stand-by mode	Blue and/or White light can be either steady on or blinking, depending on the selected mode	Recommended replacement cycle of the EOG cell is due.
Yellow light steady ON while EOG working		
Blue light blinking slowly while EOG working	Blue and White lights alternate in blinking	The EOG cell happens to problem 2 situation (low efficiency)
Yellow light steady ON		The EOG cell happens to problem 3 situation (overcurrent) All function suspended.

Sometimes suspected problem is remedied by disconnecting the power plug and then re-connecting it.

Problem 1	No sign of power. Light effects are absent.
Possible Cause	1. Power Supply is inoperable 2. Master control board (PCB) out of order
Corrective Action	Check if the power socket on the wall functions normally. Check if the power connection between power adaptor and the unit correctly. If the symptom remains, contact your maintenance person or authorized service agency.

Problem 2	EOG status indicator shows blue light slowly blinking and the status indicator shows blue / white light blinking alternately.
Possible Cause	The EOG cell efficiency decreased. The reason could be: 1. Input water quality doesn't fit the requirement (TDS too low) 2. Scale accumulated on the electrodes of the EOG cell.
Corrective Action	Check the water quality. If the TDS is lower than the requirement, adjust the input water TDS. If the issue happens after the device has been worked for a period of time, scale accumulate could be the reason. Please clean the EOG cell according to Sec. 4.3. If the symptom remains, contact your maintenance person or authorized service agency.

Problem 3	EOG status indicator shows yellow light steady ON and the status indicator shows blue / white light blinking alternately. All function suspended.
Possible Cause	An overcurrent occurs in the EOG cell, it could be some conductivity foreign materials stuck between the electordes of the EOG.
Corrective Action	Flush it's inner space with clean tap water to remove the foreign materials. If the symptom remains, contact your maintenance person or authorized service agency.

Problem 4	The EOG status indicator blinks slowly in yellow during stand-by period. When the EOG cell is producing ozone water, the EOG status indicator lights steady yellow.
Possible Cause	Recommended replacement cycle of the EOG cell cartridge is due.
Corrective Action	Replace a new EOG cell cartridge (Refer to. Sec. 4.2) * Contact your BioSure Professional dealer for the EOG cell cartridge.

Problem 5	There is no water output, but the EOG cell is activated to produce ozone water and shut down within seconds .
Possible Cause	There exists water hammer effect within the water line.
Corrective Action	Install a water hammer arrester or reduce the water pressure.

WARRANTY INFORMATION

LIMITED WARRANTY

Equipment manufactured by Biotek Environmental Science Ltd. has been constructed of the finest materials available and manufactured to high quality standards. When installed in accordance with manufacturer's recommendations, and under normal use and service, new BioSure Professional WDS Mini unit is warranted to be free of defects due to poor materials or workmanship for the period of time listed below (following the date of purchase):

- Main Body: 2 years (Consumables not included)

EXCLUSIONS

This warranty may be voided in the case of:

1. Defects caused by improper system installation, storage or handling prior to placing of the equipment into service.
2. Attempted to repairs or installation by unauthorized service agencies or personnel .
3. Expense of normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the equipment.
4. Damages due to alterations, abuse, fire, flood, or acts of nature.
5. Failure to follow BES Group instructions for use, care, or maintenance.
6. Removal, alteration, or defacing of BES Group-affixed serial number and other labels.
7. Man-made structural damage.
8. Use of fluids other than clean, potable water.

This warranty is conditional upon Biotek Environmental Science Ltd. receiving notice of any defect subject to this warranty within thirty (30) days of its original discovery by the User/Buyer.

Biotek Environmental Science Ltd. reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment due to factors beyond our control and continuous product development.

If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's documentation. Damage should be reported to the carrier. This damage is not covered under this warranty. Prices and specifications are subject to change without notice.

[illegible]

BioSure
PROFESSIONAL



CONTACT INFORMATION

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